

METHODS FOR IMPROVING THE SEQUENCE FIDELITY OF SYNTHETIC  
DOUBLE-STRANDED OLIGONUCLEOTIDES

ABSTRACT OF THE DISCLOSURE

Synthetic oligonucleotides, such as synthetic DNA, often contain sequence errors due to synthetic failures (e.g., side products and/or truncated products). Methods are provided herein for improving the sequence fidelity of synthetic double-stranded oligonucleotides by separative depletion of synthetic failures. Separation is effected by utilization of methodologies in a preparative mode under denaturing conditions. A preferred use of the methods relates to gene synthesis.